

M.C.A. DEGREE EXAMINATIONS: NOVEMBER 2009

Fifth Semester

P07CAE10: DATA WAREHOUSING AND DATA MINING

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 2 = 20 Marks)

1. Compare Descriptive and Predictive Data mining
2. What is Data cube?
3. Specify a data mining query for characterization with DMQL.
4. What is Iceberg Query?
5. Differentiate between Clustering and Classification
6. What is Linear Regression?
7. What is concept Hierarchy? Give an example
8. What are the views considered for the designing of data warehouse?
9. List out any four commercial data mining tool
10. What is data security – enhancing techniques?

PART B (5 x 16 = 80 Marks)

11. a) (i) Describe the steps involved in data mining viewed as process of KDD (8)
(ii) Tabulate and briefly discuss the various data mining techniques (8)

(OR)

- b) Discuss in detail about Data mining on different kind of data (16)

12. a) Explain the Numerosity Reduction with examples. (16)

(OR)

- b) Write and explain the algorithm for mining item sets without candidate generation give relevant example. (16)

13. a) Explain in detail Bayesian Classification. (16)

(OR)

b) Explain the following clustering methods in detail with example.

(i) BIRCH (8)

(ii) CURE (8)

14 a) What is Data warehouse? Distinguish between data warehouse and operational database system. (16)

(OR)

b) (i) Explain OLAP operation in the multidimensional data model with relevant example.

(8)

(ii) Categorize OLAP tools and discuss their advantages and disadvantages. (8)

15. a) Describe in detail about Mining Spatial Database. (16)

(OR)

b) Explain in detail any four data mining application. (16)
